

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a magnetic powder which can provide a bonded magnet having excellent magnetic properties and having excellent reliability especially excellent heat stability. The magnetic powder is composed of an alloy composition represented by $R_x(Fe_{1-y}Co_y)_{100-x-z-w}B_zNb_w$ (where R is at least one kind of rare-earth element, x is 7.1 - 9.9at%, y is 0 - 0.30, z is 4.6 - 6.9at%, and w is 0.2 - 3.5at%), the magnetic powder being constituted from a composite structure having a soft magnetic phase and a hard magnetic phase, wherein the magnetic powder has magnetic properties in which, when the magnetic powder is formed into an isotropic bonded magnet having a density ρ [Mg/m³] by mixing with a binding resin and then molding it, the maximum magnetic energy product $(BH)_{max}$ [kJ/m³] of the bonded magnet at the room temperature satisfies the relationship represented by the formula $(BH)_{max}/\rho^2[\times 10^{-9}Jm^3/g^2] \geq 2.2$, and the intrinsic coercive force (H_{c3}) of the bonded magnet at the room temperature is in the range of 320 - 720 kA/m.